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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/944,983	08/30/2001	Paul A. Farrar	1303.018US1	1908
21186	7590 04/20/200	4	EXAMINER	
SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.			RACHUBA, MAURINA T	
P.O. BOX 2938 MINNEAPOLIS, MN 55402			ART UNIT	PAPER NUMBER
			3723	).
			DATE MAILED: 04/20/2004	<b>1</b>

Please find below and/or attached an Office communication concerning this application or proceeding.

•		,				
	Application No.	Applicant(s)				
	09/944,983	FARRAR, PAUL A.				
Office Action Summary	Examiner	Art Unit				
	M Rachuba	3723				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply if NO period for reply is specified above, the maximum statutory period was railure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 23 Fe	bruary 2004.					
3) Since this application is in condition for allowan	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)⊠ Claim(s) <u>See Continuation Sheet</u> is/are pending	g in the application.					
4a) Of the above claim(s) <u>3,17,28,37,40,58,67,68,76,81 and 89</u> is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1,2,4-16,18-21,24-27,29-36,38,39,41-57,59-66,69-75,77-80,82-88 and 90-92</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	8) Claim(s) are subject to restriction and/or election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examiner	•.					
10)⊠ The drawing(s) filed on <u>30 August 2001</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:	. ,					
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents		on No				
3. Copies of the certified copies of the prior	ity documents have been receive	ed in this National Stage				
application from the International Bureau	(PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of	of the certified copies not receive	d.				
Attachment(s)						
Notice of References Cited (PTO-892)     Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da	•				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  5) Notice of Informal Patent Application (PTO-152)						
Paper No(s)/Mail Date	6) Other:					

Continuation of Disposition of Claims: Claims pending in the application are 1,2,4-16,18-21,24-27,29-36,38,39,41-57,59-66,69-75,77-80,82-88 and 90-92.

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### **DETAILED ACTION**

#### Election/Restrictions

1. Claims 3, 3, 17, 28, 37, 40, 58, 67, 68, 76, 81, and 89 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected species, there being no allowable generic or linking claim. Election was made **without** traverse in Paper No. 4.

# Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1, 6, 8, 51, 55 and 77 are finally rejected under 35 U.S.C. 102(b) as being clearly anticipated by Dion et al, 3,943,666. '666 disclose the claimed invention, including the polishing pad being a rigid pad with embedded abrasive.

# Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 1, 2, 4-9,14, 16, 18-21, 24, 25, 33, 35, 36, 38, 39, 41-56, 59-61, 63-66, 69-75, 77-80, 82-88 and 90-92 are rejected under 35 U.S.C. 103(a) as being

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unpatentable over Shimizu, 5,827,115 in view of Dion et al '666. '115 discloses the claimed invention, including that the pad may be made of hard polyurethane. '115 is silent as to the rigidity of the pad. '666 teaches that it is old and well known to use a rigid abrasive pad on a roller to polishing a wafer. It would have been obvious to one of ordinary skill to have provided '115 with the rigid pad taught by '666, column 2, lines 5-50 and column 4, lines 1-5.

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6. Claims 10, 15, 26-27, 29-32, 34 and 62 are finally rejected under 35 U.S.C. 103(a) as being unpatentable over Shimizu,' 115 in view of Dion et al, '666 and further in view of Bruxvoort et al, 5,958,794. '115 as modified by '666 discloses that the tool is dressed, but does not disclose that the dressing is done by a finely tuned laser beam. '794, column 14, lines 13-26, teaches that laser dressing of polishing pads is a conventional technique. It would have been obvious to one of ordinary skill in the art to have provided '115 with the conventional laser dressing taught by '794, ""to remove worn abrasive particles" and/or to remove any undesirable debris and thereby enhance the cutting ability of the fixed abrasive article", column 14, lines 15-18.

## Response to Arguments

7. Applicant's arguments with respect to the rejected claims have been considered but are most in view of the new ground(s) of rejection. Applicant argues that '115 does not disclose the use of a rigid polishing pad as now required by the newly amended claims. The examiner agrees, and in response to the amendment, now relies on '666, previously cited of interest, to teach the use of such a pad.

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## Conclusion

8. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

9. Any inquiry concerning the content of this communication or earlier communications from the examiner should be directed to M. Rachuba whose telephone number is (703) 308-1361. The examiner can normally be reached on Monday through Friday from 8:30 AM to 4:00 PM. Any inquiries concerning other than the content of this and previous communications, such as missing references or filed papers not acknowledged, should be directed to the Customer Service Representative, Tech Center 3700, (703) 306-5648.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph Hail, can be reached on (703) 308-2687.

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In lieu of mailing, it is encouraged that all formal responses be faxed to 703-872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-1148.

M. RACHUBA PRIMARY PATENT EXAMINER ART UNIT 3723

mtr April 19, 2004

